character and/or coordinate input unit as screen displaying information, and a display unit having the display screen and displaying the screen displaying information which is the result of the plurality of kinds of work processing output from said work processing unit, said information display apparatus comprising:

a representation mode detector unit detecting representation mode data of information displayed on said display screen;

arrangement rule storing means for storing an arrangement rule defining an optimal representation mode corresponding to each of said plurality of kinds of work processing; and

a display arrangement rule control unit coupled to said representation mode detector unit and said arrangement rule storing means and comparing current representation mode data detected with the arrangement rules stored in said arrangement rule storing means for each work to output a matched display arrangement rule, and

in response to the output from said display arrangement control unit, said work processing unit outputting information display instructions of a representation mode in accordance with said matched display arrangement rule to said display unit.

2. (Amended) An information display apparatus according to claim 1, wherein said representation mode data detected in said representation mode detector unit is a display resolution, and the arrangement rule stored in said arrangement rule storing means comprises display areas set in accordance with the display resolution and display formats.

3. (Amended) An information display apparatus according to claim 1, wherein said representation mode data detected in said representation mode detector unit is the number of display colors, and the arrangement rule stored in said arrangement rule storing means comprises the number of display colors and display formats.

4. (Amended) An information display apparatus according to claim 1, wherein said representation mode data detected in said representation mode detector unit is a drawing speed, and the arrangement rule stored in said arrangement rule storing means comprises drawing speeds and display formats.

5. (Amended) An information display apparatus comprising a sensor input unit for inputting sensor data, a character and/or coordinate input unit for inputting characters and/or coordinates, a work processing unit for executing a plurality of kinds of work processing and outputting results of the work processing based on the sensor data input from said sensor input unit and said character and/or coordinate input unit, and a display unit having a display screen for displaying the screen displaying information which is the results of the plurality of kinds of work processing output from said work processing unit, said information display apparatus further comprising:

arrangement rule storing means for storing an arrangement rule defining an optimal representation mode corresponding to each of said plurality of kinds of work processing; and

a display arrangement rule control unit for comparing work processing data output by said work processing unit with the arrangement rule stored in said arrangement rule storing means for each work to output a matched display arrangement rule, and

in response to the output from said display arrangement control unit, said work processing unit outputting information display instructions of a representation mode in accordance with said matched display arrangement rule to said display unit.

6. An information display apparatus according to claim 5, wherein said work processing data detected in said work processing unit is a computation speed, and the arrangement rule stored in said arrangement rule storing means comprises computation speeds and display formats.

7. (Amended) An information display apparatus according to claim 5, wherein said work processing data detected in said work processing unit is the number or works, and the arrangement rule stored in said arrangement rule storing means comprises the number of works and display formats.

8. An information display apparatus according to claim 5, wherein said work processing data detected in said work processing unit is a work load, and the arrangement rule stored in said arrangement rule storing means comprises work loads and display formats.

9.   An information display apparatus according to claim 5, wherein said work processing data detected in said work processing unit is work priority, and the arrangement rule stored in said arrangement rule storing means comprises work priority levels and display formats.

10. (Amended) An information display apparatus adapted to receive sensor data and character and/or coordinate data, and to execute a plurality of kinds of work processing based on said received data, and displaying results of execution on a display unit, wherein said information display apparatus detects a display format of said information display apparatus itself, converts each of the input data in accordance with a detected display form, and outputs converted data.

11. (Amended) An information display apparatus according to claim 10, wherein said display form is a resolution of a display unit of said information display apparatus.

12. (Amended) An information apparatus display according to claim 11, wherein each of said input data is analog data, and said analog data is converted to digital data and output when the resolution of the display unit of said information display apparatus is detected to be equal to or lower than a threshold value.

13. (Amended) An information display apparatus according to claim 10, wherein said display form is a display area of the display unit of said information display apparatus.

14. (Amended) An information display apparatus according to claim 11, wherein each of said input data is analog data, and said analog data is converted to digital data and output when the display area of the display unit of said information display apparatus is detected to be equal to or lower than a threshold value.

15. (Amended) A method of operating an information display apparatus comprising a sensor input unit inputting sensor data, a character and/or coordinate input unit inputting characters and coordinates, a work processing unit executing a plurality of kinds of work

processing and outputting results of the work processing based on respective data input from said sensor input unit and said character and/or coordinate input unit, and a display unit displaying the results of the plurality of kinds of work processing output from said work processing unit, comprising the steps of:

detecting display form data for a said display unit by a display form detector unit;

storing an arrangement rule defining display forms corresponding to each of said plurality of kinds of work processing in storage unit;

comparing display form data detected by said display form detector unit with the arrangement rule stored in said storage unit for each work by a display arrangement control unit to output a predetermined display arrangement instruction; and

outputting the result of each of said plurality of kinds of work processing in a predetermined display form in accordance with said display arrangement instruction in said work processing unit.

16. (Amended) A computer-readable recording medium for storing a program for causing a computer to operate an information display apparatus comprising a sensor input unit inputting sensor data, a character/coordinate input unit inputting characters and coordinates, a work processing unit executing a plurality of kinds of work processing and outputting results of the work processing based on respective data input from said sensor input unit and said character/coordinate input unit, and a display unit displaying the results of the plurality of kinds of work processing output from said work processing unit, said program comprising:

program means for causing said computer to detect display form data for said display unit;

program means for causing said computer to store an arrangement rule defining display forms corresponding to each of said plurality of kinds of work processing;

program means for causing said computer to compare said detected display form data with said stored arrangement rule for each work to output a predetermined display arrangement instruction; and